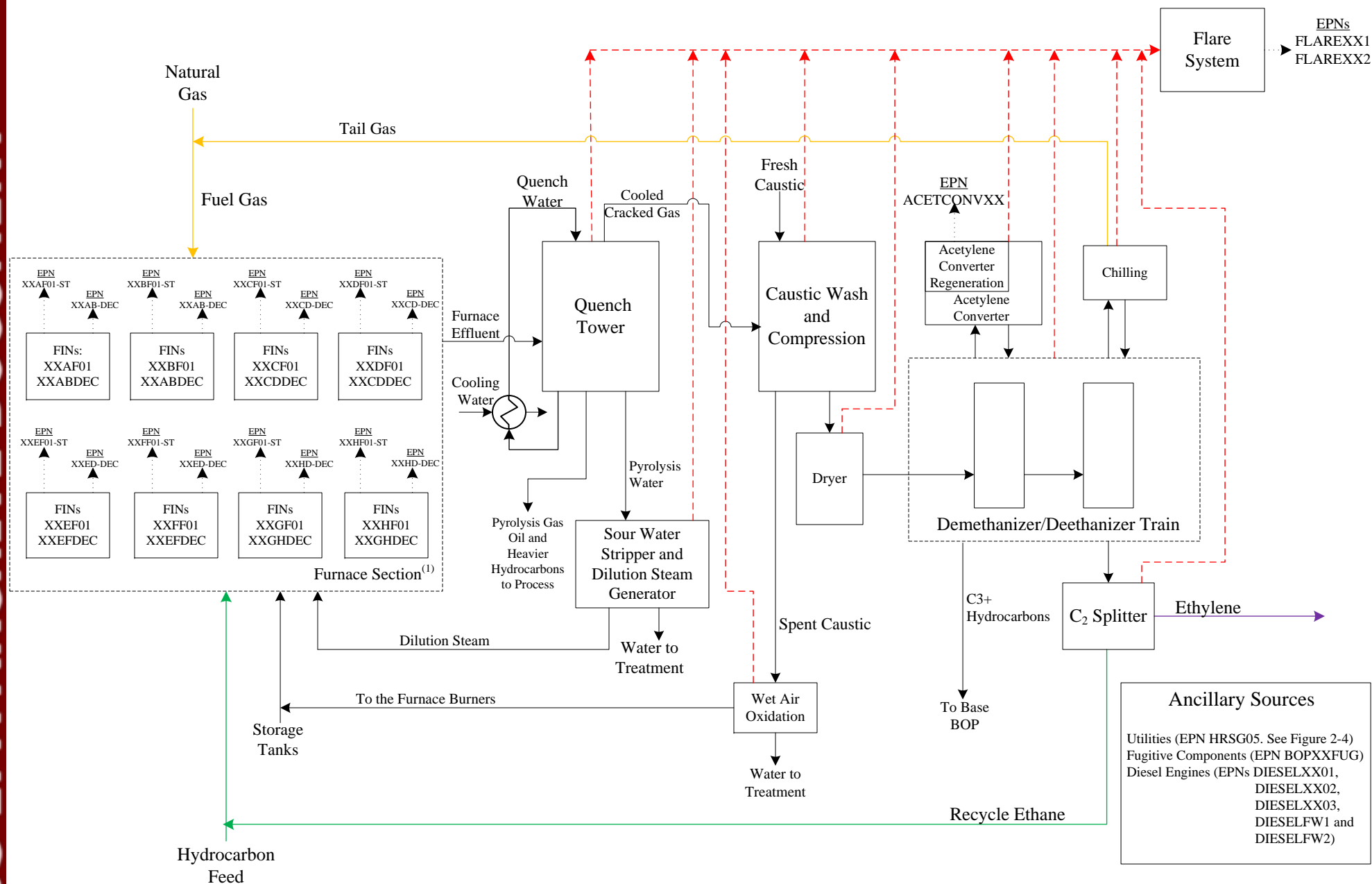


US EPA ARCHIVE DOCUMENT



Notes:

1) See Figures 2-2 and 2-3 for detailed furnace diagrams.

2) Sources without GHG emissions are not included in this diagram.

**SAGE**  
ENVIRONMENTAL CONSULTING

Drawing: Process Flow Diagram.vsd

Revision No.: 2

Date: November 2012

Project No.: 55-2-24

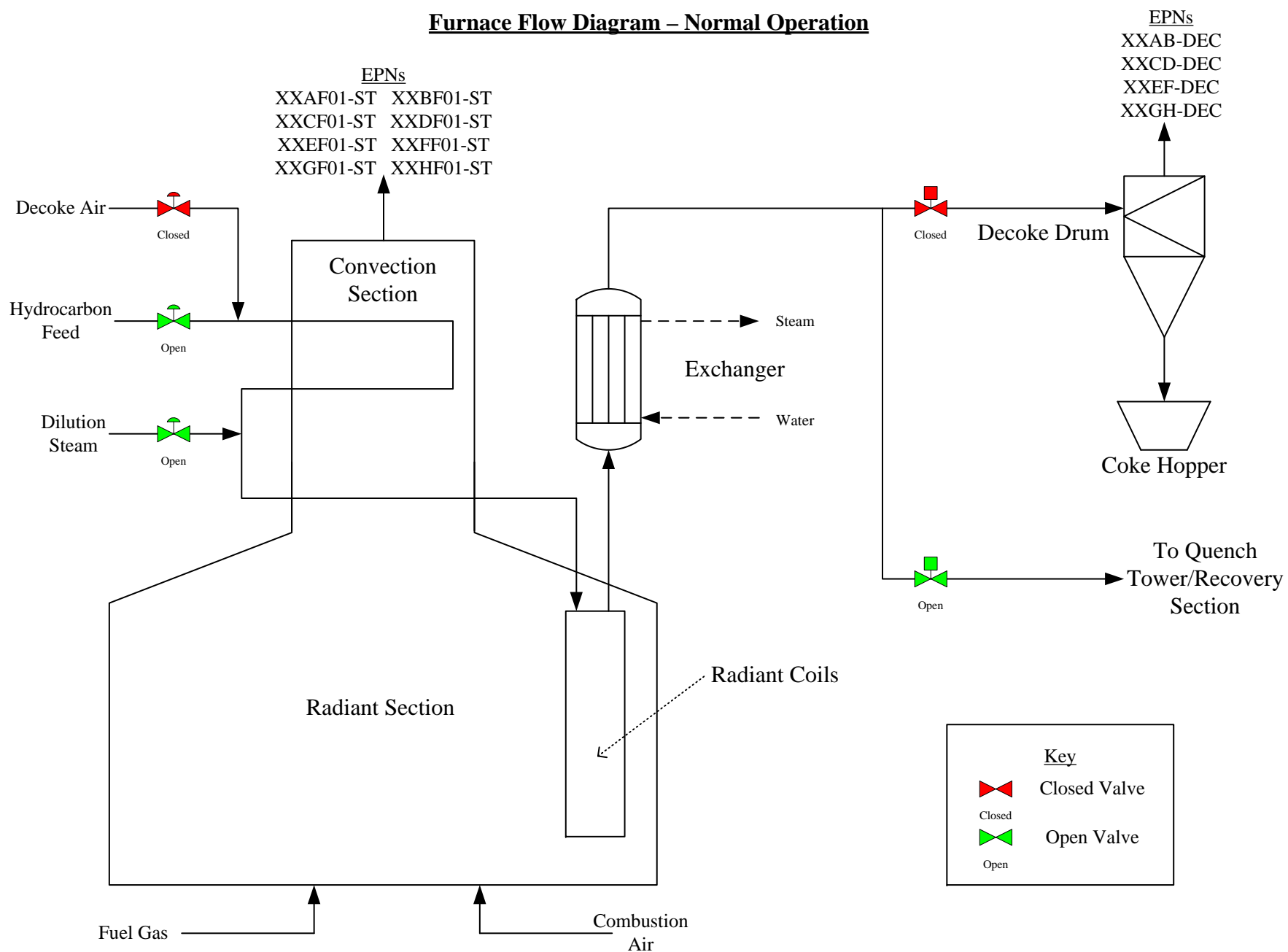
Figure 2-1

Simplified Process Flow Diagram

ExxonMobil Chemical Company

Ethylene Expansion Project

# Furnace Flow Diagram – Normal Operation



**SAGE**  
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Drawing: Furnace Normal Operation.vsd

Revision No.: 1

Date: November 2012

Project No.: 55-2-24

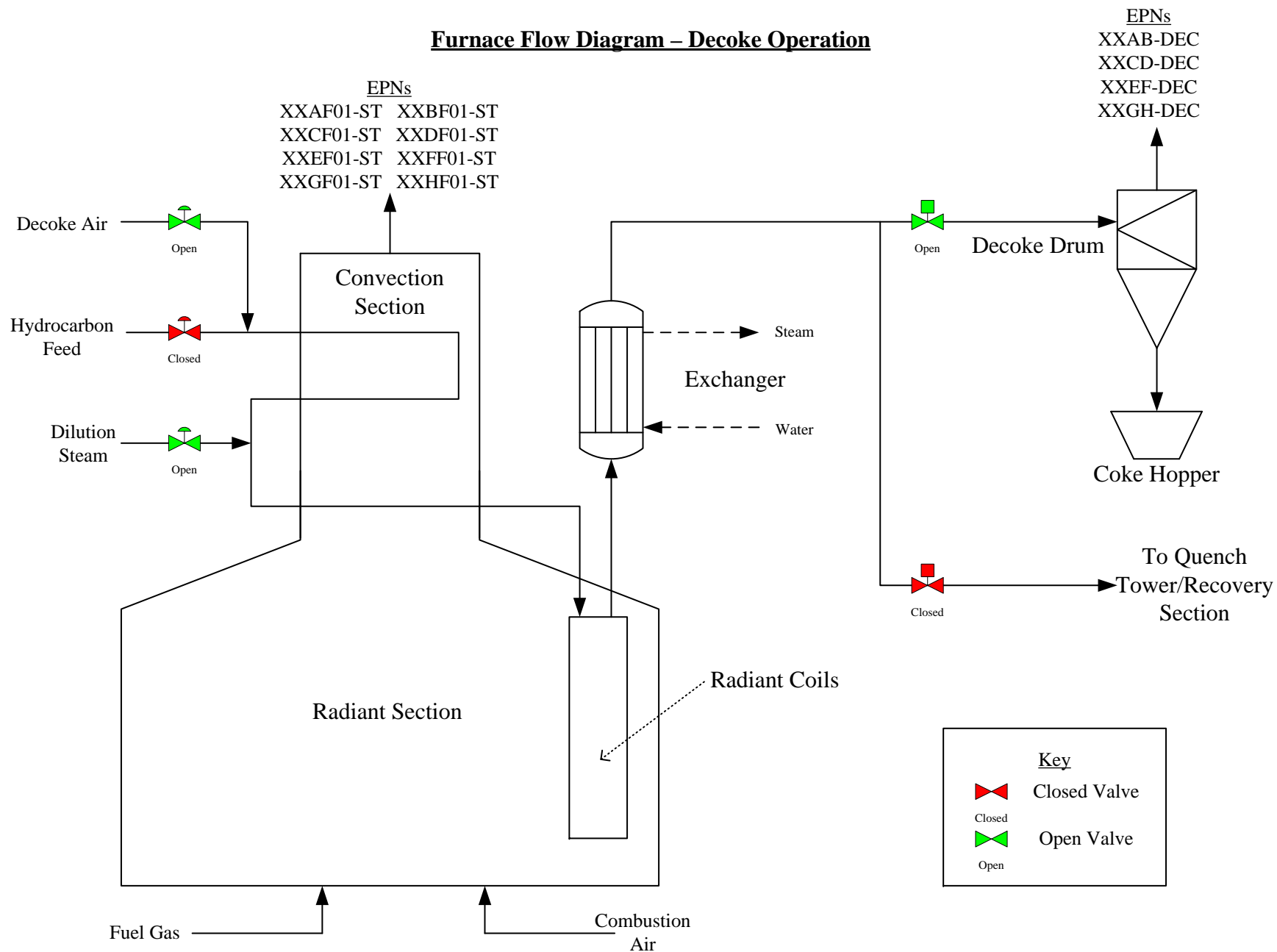
Figure 2-2

Furnace Flow Diagram

ExxonMobil Chemical Company

Ethylene Expansion Project

# **Furnace Flow Diagram – Decoke Operation**



**SAGE**  
ENVIRONMENTAL CONSULTING

Drawing: Furnace Decoke Operation.vsd

Revision No.: 1

Date: November 2012

Project No.: 55-2-24

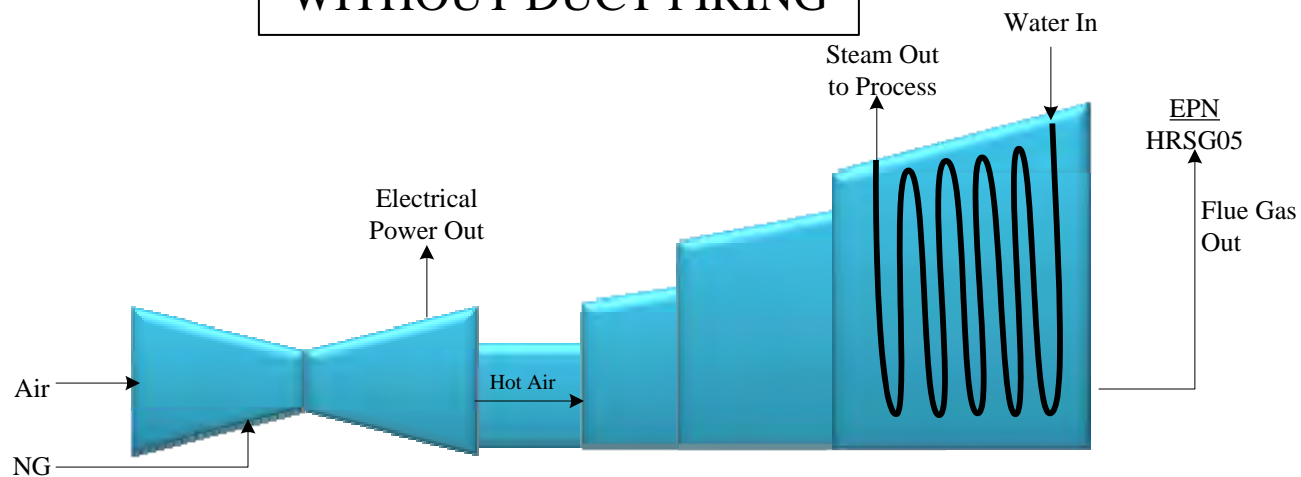
Figure 2-3

Decoke Flow Diagram

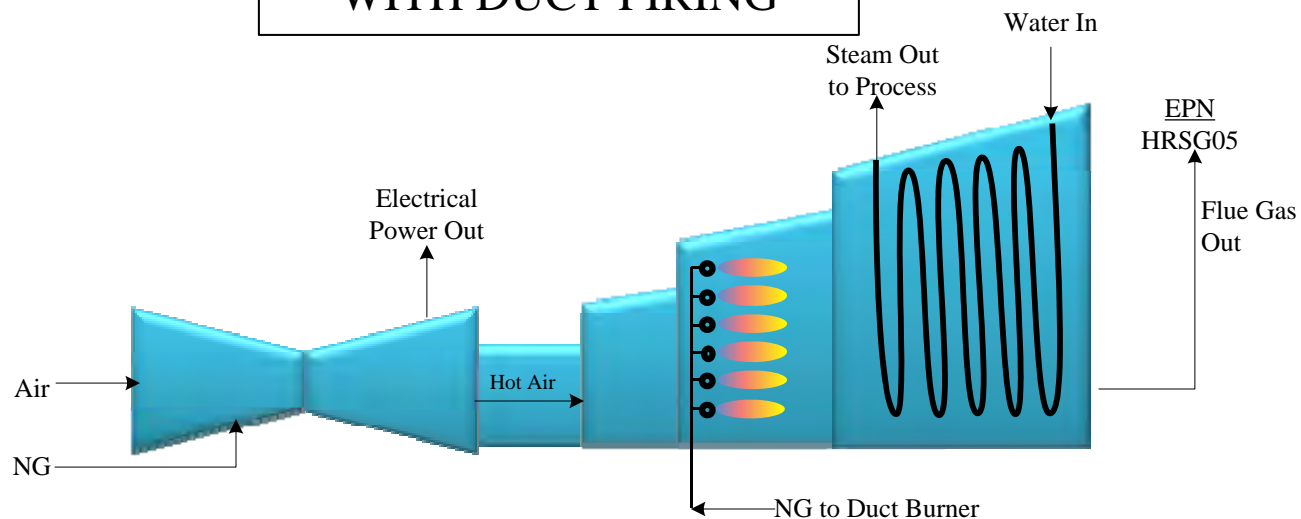
ExxonMobil Chemical Company

Ethylene Expansion Project

## WITHOUT DUCT FIRING



## WITH DUCT FIRING



**NOTE:** There is enough excess air from the gas turbine that no addition air is needed for the duct burner.

**SAGE**  
ENVIRONMENTAL CONSULTING

Drawing: Duct Burner.vsd

Revision No.: 1

Date: November 2012

Project No.: 55-2-24

Figure 2-4

Duct Burner Diagram

ExxonMobil Chemical Company

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